

10/584241

Atty. Dkt. No. 040373-0392

IAP5 Rec'd PCT/PTO 23 JUN 2006

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Shuya KISHIMOTO, et al.
Title: RADIO COMMUNICATIONS APPARATUS
Appl. No.: Unassigned
International Filing Date: 12/03/2004
371(c) Date: 06/23/2006
Examiner: Unassigned
Art Unit: Unassigned

INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §1.56

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Submitted herewith on Form PTO/SB/08 is a listing of documents known to Applicants in order to comply with Applicants' duty of disclosure pursuant to 37 CFR §1.56.

A copy of each non-U.S. patent document and each non-patent document is being submitted to comply with the provisions of 37 CFR §1.97 and §1.98.

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application or that such document is considered material to patentability as defined in 37 CFR §1.56(b). Applicants do not waive any rights to take any action which would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a *prima facie* art reference against the claims of the present application.

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TIMING OF THE DISCLOSURE

The listed documents are being submitted in compliance with 37 CFR §1.97(b), within three (3) months of the date of entry of the national stage as set forth in 37 CFR §1.491.

RELEVANCE OF EACH DOCUMENT

Document A1 is a U.S. counterpart of Document A5.

Document A2 is a U.S. counterpart of Document A7.

Document A3 is a U.S. counterpart of Document A9.

Document A4 relates to a mixer circuit which is suitable to be used for a self-heterodyne communication scheme to obtain a local oscillation signal and an RF signal of the same degree with great power.

The relevance of Documents A5, A6 and A8, listed on the attached PTO/SB/08, were cited as being relevant during the prosecution of the corresponding International application. A copy of the International Search Report is attached setting forth the portion of each document considered relevant by the examiner. An English translation of the foreign-language documents is not readily available; however, the absence of such a translation does not relieve the PTO from its duty to consider any submitted document (37 CFR §1.98 and MPEP §609). English language abstracts are attached.

The relevance of Documents A7 and A13 is described in the present specification.

Document A9 relates to a modulation system conversion circuit and optical signal transmitter in which a frequency band is made broad and a signal with high quality and small noise is transmitted.

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Document A10 relates to an adaptive modulation type transmitter/receiver for TDD to adopt a propagation line condition estimating system with which the frame efficiency of information is adversely affected and the circuit scale of a reception equipment part is not expanded.

Document A11 relates to an image suppression mixer circuit in which deterioration in an image suppression ratio due to a phase error of an element is corrected and a sufficient image suppression ration is obtained over a wide band by compensating a frequency characteristic of the element.

Document A12 relates to a frequency converter for simultaneously providing the suppression of local power leak and the suppression of an image frequency signal.

Applicants respectfully request that each listed document be considered by the Examiner and be made of record in the present application and that an initialed copy of Form PTO/SB/08 be returned in accordance with MPEP §609.

Although Applicant believes that no fee is required for this Request, the Commissioner is hereby authorized to charge any additional fees which may be required for this Request to Deposit Account No. 19-0741.

Respectfully submitted,

Date: June 23, 2006

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Substitute for form 1449B/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	Unassigned 10/584241
				Filing Date	June 23, 2006
Date Submitted: June 23, 2006				First Named Inventor	Shuya KISHIMOTO
				Group Art Unit	Unassigned
(use as many sheets as necessary)				Examiner Name	Unassigned
				Attorney Docket Number	040373-0392
Sheet	1	of	1		

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
	A1	2004/0114549	A1	MOYOSHI	06-17-2004	
	A2	6,826,234	B1	SHOJI et al.	11-30-2004	
	A3	5,896,216		KIKUSHIMA et al.	04-20-1999	

UNPUBLISHED U.S. PATENT APPLICATION DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Application Document		Name of Patentee or Applicant of Cited Document	Filing Date of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Serial Number	Kind Code ² (if known)			

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Documents	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number ⁴	Kind Code ⁵ (if known)				
	A4	JP	2004-166260	A	NEC CORP.	06-10-2004		A
	A5	JP	2003-218830	A	MATSUSHITA ELECTRIC IND. CO. LTD.	07-31-2003		A
	A6	JP	2003-198262	A	MITSUBISHI ELECTRIC CORP.	07-11-2003		A
	A7	JP	2001-053640	A	COMMUNICATION RESEARCH LAB. MPT	02-23-2001		A
	A8	JP	2000-013246	A	HITACHI LTD.	01-14-2000		A
	A9	JP	09-326769		NIPPON TELEGR & TELEPH CORP.	12-16-1997		A
	A10	JP	09-200282		KOKUSAI ELECTRIC CO.	07-31-1997		A
	A11	JP	08-125447		NEC CORP.	05-17-1996		A
	A12	JP	08-186449		NIPPON TELEGR & TELEPH CORP.	07-16-1996		A

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶
	A13	Y. SHOJI et al., "60 GHz Band 64QAM/OFDM Terrestrial Digital Broadcasting Signal Transmission by Using Millimeter-Wave Self-Heterodyne System," IEEE Transactions on Broadcasting, Vol. 47:3, September 2001, pp. 218-227.	

Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.